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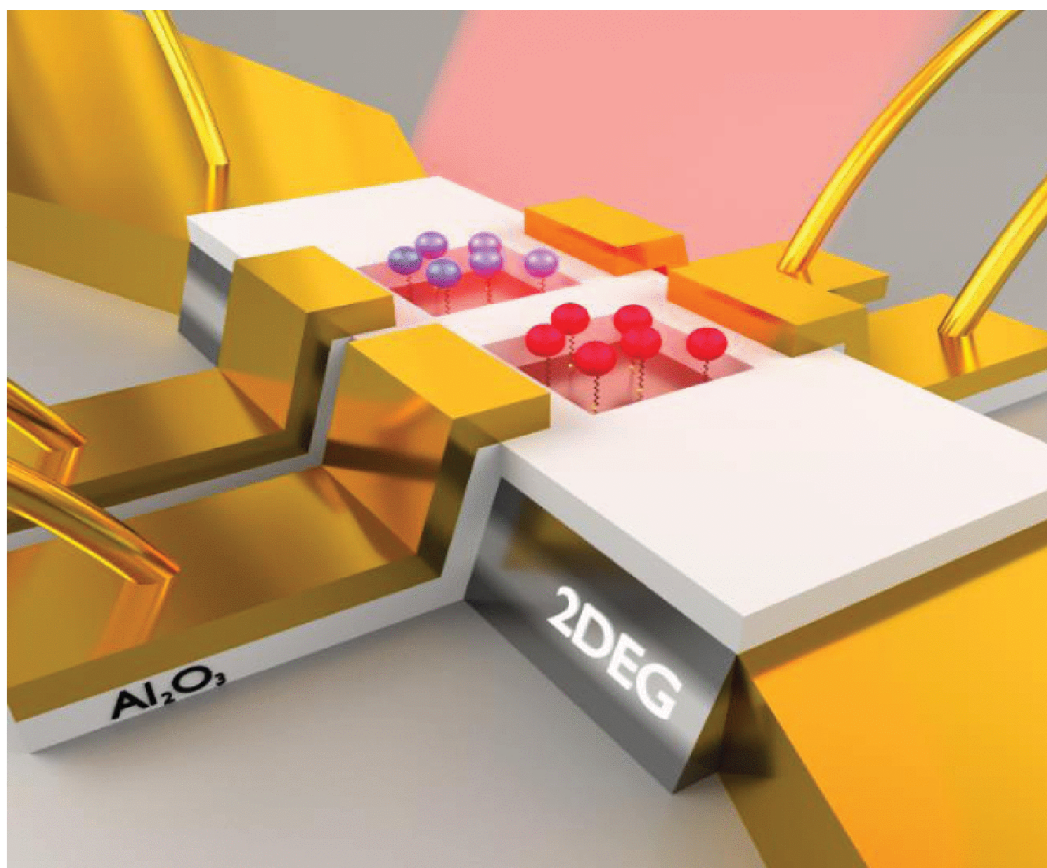


Illustration of the two color hybrid organic and QDs detector, based on shallow GaAs high electron mobility transistor with QDs acting as light gates (not drawn to scale). The transistor behavior control achieved by electrical field that was applied over the conductive channel using two side gates. (Vol. 19, No. 10, see page 3669).